

## STATEMENT OF QUALIFICATIONS

**Name of Lab:** Scientific Crime Detection Laboratory  
5500 E. Tudor Road  
Anchorage, AK 99507

**Date:** June 4, 2009

**Name:** Hayne Hamilton

**Job Title:** Forensic Scientist IV

**Discipline(s):** Indicate all areas in which you did casework.

Forensic serology/DNA analysis/Crime Scene Investigations  
Instructor, serology evidence and examinations, DNA

**Education:** List all higher academic institutions attended.

Institution	Dates attended	Major	Degree completed
Millsaps College	1967-1971	Chemistry	Bachelor of Science

1999: Statistics & Population Genetics, University of Alaska-Fairbanks (1 hour credit), Alaska Peace Officers Association/Northwest Association of Forensic Scientists, 1999 Crime Conference, Anchorage, Alaska, April 19-20, 1999.

1996: Principles of Biochemistry I, University of Alaska-Anchorage, Anchorage, Alaska (1 semester)

Molecular Biology, University of Alaska-Anchorage, Anchorage, Alaska (1 semester)

1995: Cell Biology, University of Alaska-Anchorage, Anchorage, Alaska (1 semester)

1994: Readings in Genetics, University of Alaska-Anchorage, Anchorage, Alaska (1 semester)

1989: Biochemical Methods in Bloodstain Analysis School, Univ. of Virginia Graduate School (3 hours credit), FBI Academy, Quantico, Virginia (2 weeks)

**Other Training:** List continuing education, workshops, in-service and other formal training received.

2008: Courtroom Testimony Techniques, Ron Smith, Ron Smith & Associates, Inc., Scientific Crime Detection Laboratory, Anchorage, Alaska, July 29<sup>th</sup> & 30<sup>th</sup>, 2008, (16 Hours).

Bottom Line Leadership, Richard Hadden, CSP, Alaska Public Employees Association/AFT, Anchorage, Alaska, May 7, 2008, (8 Hours).

2007: Performance Coaching, Tim Parker, Instructor, State of Alaska, Department of Administration, Division of Personnel Course, September 13, 2007, (7.5 Hours).

Biological Evidence Collection, Kristin Denning, Criminalist III, Instructor, Scientific Crime Detection Laboratory, Anchorage, Alaska, May 17, 2007 (8 Hours).

2005: Statistical Analysis of Forensic DNA Evidence, George Carmody, Instructor, Carlton University Department of Biology; Ray Wickenheiser, Instructor, Acadiana Criminalistics Laboratory, Anchorage, Alaska, August 15-19, 2005 (30 hours).

**Statement of Qualifications:**

Hayne Hamilton

Page 2

**Other Training:** (continued)

- 2004: Qiagen Bio-Robot Demonstration, Patrick Bronson-Dougherty, Public Health Laboratory, Anchorage, Alaska (1.5 hours)  
Real-Time PCR System Mx3000 Seminar, Scott O'Brian, Stratagene, Crime Lab Classroom (3.5 Hours)
- 2003: Quantitative Methods Using RT-PCR, Stratagene On-Line Seminar, Anchorage, Alaska (1.5 hours)  
NDIS DNA Data Acceptance Standards, Chris Beheim, Anchorage, Alaska (1.5 hours)  
Forensic Digital Imaging, Imaging Forensics, George Reis, Anchorage, Alaska (3 days)
- 2002: Mixture Interpretation Workshop Parts I and II, George Carmody, John Planz, Fred Bieber, Ray Wickenheiser, Sindy Schueler, Arthur Eisenberg and Bruce Budowle (3 hours)  
CODIS Workshop Part I, Lisa Kennedy and Carla Heron, Science Applications International Corporation, Arlington, Virginia (1.5 hours)  
Audit Workshop Parts I and II, Richard Guerrieri, Anja Einseln, Federal Bureau of Investigation, Arlington, Virginia (3 hours)  
ABI Prism™ 310 Instrument & Software Training, Kimberly C. Bogard, Senior Technical Applications Specialist, Applied Biosystems, Scientific Crime Detection Laboratory, Anchorage, Alaska (9 hours)  
Population Genetics and Statistics, Scientific Crime Detection Laboratory, Anchorage, Alaska (2 hours)
- 2001: Statistics and Mixture Interpretation Workshop, 12<sup>th</sup> International Symposium on Human Identification-Promega Corporation, Biloxi, Mississippi (14 hours)  
Scientific Working Group on DNA Analysis Methods (SWGDM), Public Meeting, Biloxi, Mississippi (5 hours)
- 2000: Powerflex 16 Fluorescent STR Validation Workshop, Promega Corporation, Biloxi, Mississippi (9 hours)  
Casework Guidelines & Complex Mixture Interpretation, 11<sup>th</sup> International Symposium on Human Identification-Promega Corporation Biloxi, Mississippi (10 hours)  
Scientific Working Group on DNA Analysis Methods (SWGDM), Public meeting, Biloxi, Mississippi (8 hours)  
Short Tandem Repeat Analysis by Capillary Electrophoresis, FBI Academy, Quantico, Virginia (1 week)
- 1999: STR Workshop, FBI DNA Unit I & Armed Forces DNA Identification Laboratory, Alaska Peace Officers Association/Northwest Association of Forensic Scientists, 1999 Crime Conference, Anchorage, Alaska, (1 day)  
Perkin Elmer Applied Biosystems User Forum, 50<sup>th</sup> Annual American Academy of Forensic Sciences meeting, San Francisco, California (3 hours)
- 1998: Gene Scan User's Meeting, Perkin Elmer Applied Biosystems, Scientific Crime Detection Lab, Anchorage, Alaska (1 day)  
Advanced AmpFISTR™ and ABI Prism™ 310 Genetic Analyzer Training, Perkin Elmer Applied Biosystems, Utah State Crime Laboratory, Salt Lake City, Utah (1 week)
- 1997: Presenting DNA Statistics in Court, Drs. Bruce Weir and George Carmody, Promega Corporation, Scottsdale, Arizona, (2 days)  
Advanced DNA Technologies Workshop (15 hours), Perkin Elmer Applied Biosystems User Forum (3 hours), DNA Advisory Board Meeting: Quality Assurance Standards for Forensic DNA Testing Laboratories (3 hours), 49<sup>th</sup> Annual American Academy of Forensic Sciences meeting, New York City, New York

**Statement of Qualifications:** Hayne Hamilton  
Page 3

**Other Training:** (continued)

- 1995: PCR Methods Training, K. Webster and R. Reynolds, Northwest Association of Forensic Scientists, Anchorage, Alaska (1.5 days)  
DNA Testimony, Dr. Bruce Budowle, Northwest Association of Forensic Scientists, Anchorage, Alaska (4 hours)  
Implementation and Consequences of New DNA Technologies: The Sequel, American Academy of Forensic Sciences, Seattle, Washington (2 days)  
How to Be a Better Expert Witness, American Academy of Forensic Sciences, Seattle, Washington (1 day)  
AmpliType PM-DNA User Workshop, American Academy of Forensic Sciences, Seattle, Washington (4 hours)
- 1994: Frequency of DNA Loci in Various Populations, Dr. Ranajit Chakraborty, Scientific Crime Detection Laboratory, Anchorage, Alaska (4 hours)  
Population Genetics, Dr. Todd W. Gayley, Scientific Crime Detection Laboratory, Anchorage, Alaska (3 days)  
Crime Scene & Physical Evidence Training, DPS Training Academy, Sitka, Alaska (3 days)
- 1993: Blood Borne Pathogens Training, Scientific Crime Detection Laboratory, Anchorage, Alaska (2 hours)
- 1991: Amplitype™ HLA DQα Forensic DNA Amplification and Typing Training Workshop, Cetus Corporation-Seri, Richmond, California (1 week)  
DNA Workshop (Technical), Cetus Corporation, Northwest Association of Forensic Scientists, Anchorage, Alaska (2 days)  
Update on AIDS Seminar: Serial, Mass, and Sexual Homicide Workshop, American Academy of Forensic Sciences, Anaheim, California (3 hours)
- 1990: Managing Stress for Success, Communications Unlimited, Anchorage, Alaska (4 hours)
- 1988: Portable Fire Extinguishers, DPS Fire Service Training Center, Anchorage, Alaska (2 hours)  
DNA Procedures School, Cellmark Diagnostics, Germantown, Maryland (1 week)  
Isoelectric Focusing Workshop, Northwest Association of Forensic Scientists, Missoula, Montana (8 hours)
- 1987: Crime Scene Management School, Law Enforcement Academy, Douglas, Wyoming (1 week)
- 1976: Radioimmunoassay Seminar, Tampa, Florida (1 week)  
Introduction to Animal Research, Graduate School (1 semester), University of Mississippi Medical Center, Jackson, Mississippi

**Courtroom Experience:** List the discipline(s) in which you have qualified to testify as an expert witness and indicate over what period of time and approximately how many times you have testified in each.

1986-present: Serology/DNA, approximately >100 times

**Statement of Qualifications:** Hayne Hamilton

Page 4

**Professional Affiliations:** List any professional organizations of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

Fellow, American Academy of Forensic Sciences (AAFS)  
Member, American Chemical Society (ACS)  
Member, Northwestern Association of Forensic Sciences (NWAFS), Membership Committee 1999-2000  
Member, Alaska Peace Officers Association (APOA)

**Employment History:** List all scientific or technical positions held, particularly those related to forensic sciences. List current position first. Give a brief summary of principal duties and tenure in each position.

- (1) Job Title: Forensic Scientist IV  
Employer: Alaska Department of Public Safety Scientific Crime Detection Laboratory,  
Anchorage, Alaska  
Principal Duties: Supervision of the Forensic Science Technicians Unit (Evidence and Laboratory Support)  
Tenure: 08/08 – present
- (2) Job Title: Forensic Scientist IV  
Employer: Alaska Department of Public Safety Scientific Crime Detection Laboratory,  
Anchorage, Alaska  
Principal Duties: Supervision of the Chemistry Section (Controlled Substances, Toxicology and Evidence)  
Tenure: 03/08 – 08/08
- (3) Job Title: Criminalist III  
Employer: Alaska Department of Public Safety Scientific Crime Detection Laboratory  
Anchorage, Alaska  
Principal Duties: Perform DNA analysis on forensic casework and convicted offender samples. Perform scientific techniques in the identification of body fluids, i.e., blood and semen.  
Tenure: 07/88 – 03/08
- (4) Job Title: Forensic Scientist  
Employer: Wyoming State Crime Laboratory  
Cheyenne, Wyoming  
Principal Duties: Serology and microscopy of hairs.  
Tenure: 1986 - 1988
- (5) Job Title: Chemist  
Employer: Wyoming Analytical Laboratories  
Laramie, Wyoming  
Principal Duties: Coal, tar analysis.  
Tenure: 1985 - 1986
- (6) Job Title: Chemist

Employer: National Space Testing Laboratories  
NSTL, Mississippi  
Principal Duties: Contract work for NASA and EPA.  
Tenure: 1983 - 1985

**Statement of Qualifications:** Hayne Hamilton

Page 5

**Employment History:** (continued)

- (7) Job Title: Chief Technician  
Employer: University Medical Center  
Jackson, Mississippi  
Principal Duties: Radioimmunoassay Laboratory and taught Nuclear Medicine Technology in laboratory section.  
Tenure: 1974 - 1978
- (8) Job Title: Chemist  
Employer: University Medical Center  
Jackson, Mississippi  
Principal Duties: Medical research.  
Tenure: 1971 - 1972; 1973 - 1974
- (9) Job Title: Chemist  
Employer: Natchez Pathology Laboratory  
Natchez, Mississippi  
Principal Duties: Serology/Bacteriology.  
Tenure: 1972 - 1973

**Other Qualifications:** List below any scientific publication and/or presentation you have authored or co-authored, research in which you are or have been involved, academic or other teaching positions you have held, and any other information which you consider relevant to your qualification as a forensic scientist.

**CRIMINALISTICS CERTIFICATION:**

Diplomate, American Board of Criminalistics, 2001

**INSTRUCTOR CERTIFICATION:**

Alaska Police Standards Council Certified Police Instructor (Serology/DNA)

**PUBLICATIONS:**

**DNA Profiling in Two Alaskan Native Populations Using HLA-DQA1, PM, and D1S80 Loci,** M. Walkinshaw, L. Strickland, H. Hamilton, K. Denning, T. Gayley, Journal of Forensic Sciences, Vol. 41, No. 3, May 1996, Pp 478-484.

**Foliage Plants for the Indoor Removal of the Primary Combustion Gases-Carbon Monoxide and Nitrogen Oxides**, B.C. Wolverton, R.C. McDonald, H.H. Mesick, Journal of the Mississippi Academy of Sciences, 1985, 30: 1-8.

**Statement of Qualifications:** Hayne Hamilton  
Page 6

**Other Qualifications: (Continued)**

SCIENTIFIC PRESENTATIONS:

**“Blood Brothers”: A Case of “Identical Non-Twins”** Michelle L. Gaines-Collins, MSFS\*; Cheryl M. Duda, MS; Juley M. Schuerman, BS; Chris Beheim, BS; Abirami Chidambaram, PhD, DC, MPH; Jessica R. Cohen, BA; Hayne Hamilton, BS, American Academy of Forensic Sciences, Seattle, Washington, 2006

**How do you explain that?** H. Hamilton, An Unusual DNA Case: A case study using DNA typing on penile swabs. The 11<sup>th</sup> International Symposium on Human Identification, Promega Corporation, Biloxi, Mississippi, 2000.

**DNA HLA-DQA1 4 Sub-typing in Two Alaskan Native Populations**, H. Hamilton\*, L. Strickland, M. Walkinshaw, S. Waltz, and G. Taft, American Academy of Forensic Sciences, New York City, New York, 1997

**DNA Profiles on Two Alaskan Native Populations using HLA-DQ $\alpha$ , Polymarker, and D1S80**, M. Walkinshaw, L. Strickland\*, H. Hamilton, K. Denning, C. Beheim, and G. Taft, American Academy of Forensic Sciences, Seattle, Washington, 1995

**HLA DQ $\alpha$  Allele and Genotype Frequencies in the North Slope Borough Inupiat Eskimos**, H. Hamilton\*, L. Strickland, C. Beheim, and G. Taft, American Academy of Forensic Sciences, Boston, Massachusetts, 1993

CLASSES TAUGHT TO LAW ENFORCEMENT PERSONNEL:

11/13/03	<b>DNA Evidence</b> , Crime Scene and Physical Evidence Series, Crime Laboratory, Anchorage, AK (4.0 hours)
11/19/99	<b>S.A.R.T. S.A.N.E. Training</b> , Sexual Assault Response Team, Ketchikan, Alaska (2.0 hours)
04/22/99	<b>DNA FOR COPS</b> , Alaska Peace Officers Association/Northwest Association of Forensic Scientists, 1999 Crime Conference, Anchorage, AK (1.0 hour)
11/17/98	<b>PCR-STR DNA Profiling</b> , Genetics Class UAA, Anchorage, AK (1.0 hour)
5/02/97	<b>Forensic Serology Evidence/DNA</b> , Sexual Assault Response Team, Kodiak, Alaska (2.0 hours)
05/03/96	<b>Forensic Serology Evidence/DNA</b> , Sexual Assault Response Team, Fairbanks, Alaska (4.0 hours)
02/21/96	<b>Forensic Serology/DNA</b> , Sex Crime Meeting, Anchorage, Alaska (2.0 hours)
02/07/95	<b>Forensic Serology/DNA</b> , Mystery Writers Association, Anchorage, Alaska (2.0 hours)
10/31/90	<b>Forensic Serology/DNA</b> , Sexual Assault Investigators Seminar, Fairbanks, Alaska (4.0 hours)

06/08/90     **Forensic Serology/DNA**, Alaska State Medical Association Annual Convention, Fairbanks, Alaska (1.0 hours)  
05/16/90     **Serological Evidence/DNA**, Alaska Peace Officers Association Crime Conference, Juneau, Alaska (1.0 hours)

**Statement of Qualifications:**                      Hayne Hamilton  
Page 7

CLASSES TAUGHT TO LAW ENFORCEMENT PERSONNEL (continued):

04/10/90 **Forensic Serology/DNA**, Crime Laboratory, Anchorage, Alaska (1.5 hours)

03/15/90     **Forensic Serology/DNA**, Crime Laboratory, Anchorage, Alaska (1.0 hours)

05/89         **Forensic Serology/DNA**, Alaska Peace Officers Association Crime Conference, Anchorage, Alaska (4.0 hours)

MEETINGS ATTENDED:

American Academy of Forensic Sciences  
2008 – Washington D. C.  
2005 – New Orleans, Louisiana  
1998 - San Francisco, California  
1997 - New York City, New York  
1995 - Seattle, Washington  
1993 - Boston, Massachusetts  
1992 - New Orleans, Louisiana  
1991 - Anaheim, California  
1988 - Philadelphia, Pennsylvania

CODIS User's Conference  
2002 – (8<sup>th</sup>) Arlington, Virginia

NIJ Grantees' Workshop  
2004 – (5<sup>th</sup>) Washington, DC

Northwest Association of Forensic Scientists  
1999 - Anchorage, Alaska  
1995 - Anchorage, Alaska  
1991 - Anchorage, Alaska  
1988 - Missoula, Montana

Promega International Symposiums on Human Identification  
2001- (12<sup>th</sup>) Biloxi, Mississippi  
2000 - (11<sup>th</sup>) Biloxi, Mississippi  
1997 - (8<sup>th</sup>) Scottsdale, Arizona